

SHOCK ABSORBING STRUCTURE OF TURNING MECHANISM OF AN ELECTRIC CART EQUIPPED WITH TWIN FRONT WHEELS

ABSTRACT

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A turning mechanism of an electric cart includes twin front wheels, a control shaft, and an axle; the shaft has a horizontal rod portion at a lower end; the front wheels are connected to two ends of the axle while the axle is arranged under the horizontal rod portion; the front wheels are
10 much closer to each other than rear wheels are to each other; springs are located between the axle and the horizontal rod portion; connecting plates are arranged next to fronts and rears of the horizontal rod portion and the axle, and each has two fitting holes respectively opposing a through hole of the horizontal rod portion, and a through hole of the axle;
15 ringed pads are inserted in respective fitting holes, and bolts are inserted through the ringed pads, and the through holes; thus, the cart is like a three-wheel one in terms of easiness to use and simplicity of the structure.

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